SEQUENCE LISTING

<110> SOULARD, PATRICIA

<120> POLYPEPTIDES EXHIBITING PDE7 ACTIVITY AND THEIR USE FOR
      SELECTING COMPOUNDS WHICH INHIBIT PDE 7 ENZYME ACTIVITY

<130> A0000281US

<140>
<141>

<160> 35

<170> PatentIn Ver. 2.1

<210> 1
<211> 426
<212> PRT
<213> Homo sapiens

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Asp Phe Arg Ile Phe His Ser Gln Ser Glu Ile Glu Val Ser Val Ser
         35   40   45

Ala Arg Asn Ile Arg Arg Leu Leu Ser Phe Gln Arg Tyr Leu Arg Ser
     50   55   60

Ser Arg Phe Phe Arg Gly Thr Ala Val Ser Asn Ser Leu Asn Ile Leu
 65   70   75   80

Asp Asp Asp Tyr Asn Gly Gln Ala Lys Cys Met Leu Glu Lys Val Gly
                 85   90   95

Asn Trp Asn Phe Asp Ile Phe Leu Phe Asp Arg Leu Thr Asn Gly Asn
             100   105   110

Ser Leu Val Ser Leu Thr Phe His Leu Phe Ser Leu His Gly Leu Ile
             115   120   125

Glu Tyr Phe His Leu Asp Met Met Lys Leu Arg Arg Phe Leu Val Met
     130   135   140

Ile Gln Glu Asp Tyr His Ser Gln Asn Pro Tyr His Asn Ala Val His
145   150   155   160

Ala Ala Asp Val Thr Gln Ala Met His Cys Tyr Leu Lys Glu Pro Lys
                 165   170   175

Leu Ala Asn Ser Val Thr Pro Trp Asp Ile Leu Leu Ser Leu Ile Ala
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Ala Ala Thr His Asp Leu Asp His Pro Gly Val Asn Gln Pro Phe Leu
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Ile Lys Thr Asn His Tyr Leu Ala Thr Leu Tyr Lys Asn Thr Ser Val
    210   215   220

Leu Glu Asn His His Trp Arg Ser Ala Val Gly Leu Leu Arg Glu Ser
225   230   235   240

Gly Leu Phe Ser His Leu Pro Leu Glu Ser Arg Gln Gln Met Glu Thr
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Gln Ile Gly Ala Leu Ile Leu Ala Thr Asp Ile Ser Arg Gln Asn Glu
                260   265   270

Tyr Leu Ser Leu Phe Arg Ser His Leu Asp Arg Gly Asp Leu Cys Leu
                275   280   285

Glu Asp Thr Arg His Arg His Leu Val Leu Gln Met Ala Leu Lys Cys
    290   295   300

Ala Asp Ile Cys Asn Pro Cys Arg Thr Trp Glu Leu Ser Lys Gln Trp
305   310   315   320

Ser Glu Lys Val Thr Glu Glu Phe Phe His Gln Gly Asp Ile Glu Lys
                325   330   335

Lys Tyr His Leu Gly Val Ser Pro Leu Cys Asp Arg His Thr Glu Ser
                340   345   350

Ile Ala Asn Ile Gln Ile Gly Phe Met Thr Tyr Leu Val Glu Pro Leu
                355   360   365

Phe Thr Glu Trp Ala Arg Phe Ser Asn Thr Arg Leu Ser Gln Thr Met
    370   375   380

Leu Gly His Val Gly Leu Asn Lys Ala Ser Trp Lys Gly Leu Gln Arg
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<213> Mus sp.

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                20   25   30

Asp Phe Arg Ile Phe His Ser Gln Ser Asp Ile Glu Ala Ser Val Ser
            35   40   45

Ala Arg Asn Ile Arg Arg Leu Leu Ser Phe Gln Arg Tyr Leu Arg Ser
    50   55   60

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Ser Arg Val Phe Arg Gly Ala Thr Val Cys Ser Ser Leu Asp Ile Leu
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Asp Glu Asp Tyr Asn Gly Gln Ala Lys Cys Met Leu Glu Lys Val Gly
            85              90              95

Asn Trp Asn Phe Asp Ile Phe Leu Phe Asp Arg Leu Thr Asn Gly Asn
            100             105             110

Ser Leu Val Ser Leu Thr Phe His Leu Phe Ser Leu His Gly Leu Ile
            115             120             125

Glu Tyr Phe His Leu Asp Met Val Lys Leu Arg Arg Phe Leu Val Met
    130             135             140

Ile Gln Glu Asp Tyr His Ser Gln Asn Pro Tyr His Asn Ala Val His
145             150             155             160

Ala Ala Asp Val Thr Gln Ala Met His Cys Tyr Leu Lys Glu Pro Lys
            165             170             175

Leu Ala Ser Ser Val Thr Pro Trp Asp Ile Leu Leu Ser Leu Ile Ala
            180             185             190

Ala Ala Thr His Asp Leu Asp His Pro Gly Val Asn Gln Pro Phe Leu
            195             200             205

Ile Lys Thr Asn His Tyr Leu Ala Thr Leu Tyr Lys Asn Ser Ser Val
    210             215             220

Leu Glu Asn His His Trp Arg Ser Ala Val Gly Leu Leu Arg Glu Ser
225             230             235             240

Gly Leu Phe Ser His Leu Pro Leu Glu Ser Arg Gln Glu Met Glu Ala
            245             250             255

Gln Ile Gly Ala Leu Ile Leu Ala Thr Asp Ile Ser Arg Gln Asn Glu
            260             265             270

Tyr Leu Ser Leu Phe Arg Ser His Leu Asp Lys Gly Asp Leu His Leu
    275             280             285

Asp Asp Gly Arg His Arg His Leu Val Leu Gln Met Ala Leu Lys Cys
    290             295             300

Ala Asp Ile Cys Asn Pro Cys Arg Asn Trp Glu Leu Ser Lys Gln Trp
305             310             315             320

Ser Glu Lys Val Thr Glu Glu Phe Phe His Gln Gly Asp Ile Glu Lys
            325             330             335

Lys Tyr His Leu Gly Val Ser Pro Leu Cys Asp Arg Gln Thr Glu Ser
            340             345             350

Ile Ala Asn Ile Gln Ile Gly Phe Met Thr Tyr Leu Val Glu Pro Leu
    355             360             365

Phe Thr Glu Trp Ala Arg Phe Ser Ala Thr Arg Leu Ser Gln Thr Met
    370             375             380
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Leu Gly His Val Gly Leu Asn Lys Ala Ser Trp Lys Gly Leu Gln Arg
385   390   395   400

Gln Gln Pro Ser Ser Glu Asp Ala Asn Ala Ala Phe Glu Leu Asn Ser
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Gln Leu Leu Thr Gln Glu Asn Arg Leu Ser
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<210> 3
<211> 426
<212> PRT
<213> Rattus sp.

<400> 3
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Ser Arg Ala Gly Phe Glu Thr Glu Arg Arg Gly Ser His Pro Tyr Ile
                20   25   30

Asp Phe Arg Ile Phe His Ala Gln Ser Glu Ile Glu Ala Ser Val Ser
            35   40   45

Ala Arg Asn Ile Arg Arg Leu Leu Ser Phe Gln Arg Tyr Leu Arg Ser
        50   55   60

Ser Arg Phe Phe Arg Gly Ala Thr Val Cys Arg Ser Leu Asn Ile Leu
65   70   75   80

Asp Glu Asp Tyr Asn Gly Gln Ala Lys Cys Met Leu Glu Lys Val Gly
                85   90   95

Asn Trp Asn Phe Asp Ile Phe Leu Phe Asp Arg Leu Thr Asn Gly Asn
            100   105   110

Ser Leu Val Ser Leu Thr Phe His Leu Phe Ser Leu His Gly Leu Ile
        115   120   125

Glu Tyr Phe His Leu Asp Met Val Lys Leu Arg Arg Phe Leu Val Met
        130   135   140

Ile Gln Glu Asp Tyr His Ser Gln Asn Pro Tyr His Asn Ala Val His
145   150   155   160

Ala Ala Asp Val Thr Gln Ala Met His Cys Tyr Leu Lys Glu Pro Lys
                165   170   175

Leu Ala Asn Ser Val Thr Pro Trp Asp Ile Leu Leu Ser Leu Ile Ala
            180   185   190

Ala Ala Thr His Asp Leu Asp His Pro Gly Val Asn Gln Pro Phe Leu
        195   200   205

Ile Lys Thr Asn His Tyr Leu Ala Thr Leu Tyr Lys Asn Thr Ser Val
        210   215   220

Leu Glu Asn His His Trp Arg Ser Ala Val Gly Leu Leu Arg Glu Ser
225   230   235   240

Gly Leu Phe Ser His Leu Pro Leu Glu Ser Arg His Glu Met Glu Ala
            245   250   255

Gln Ile Gly Ala Leu Ile Leu Ala Thr Asp Ile Ser Arg Gln Asn Glu
            260   265   270

Tyr Leu Ser Leu Phe Arg Ser His Leu Asp Lys Gly Asp Leu His Leu
            275   280   285

Asp Asp Gly Arg His Arg His Leu Val Leu Gln Met Ala Leu Lys Cys
290   295   300

Ala Asp Ile Cys Asn Pro Cys Arg Asn Trp Glu Leu Ser Lys Gln Trp
305   310   315   320

Ser Glu Lys Val Thr Glu Glu Phe Phe His Gln Gly Asp Ile Glu Lys
            325   330   335

Lys Tyr His Leu Gly Val Ser Pro Leu Cys Asp Arg Gln Thr Glu Ser
            340   345   350

Ile Ala Asn Ile Gln Ile Gly Phe Met Thr Tyr Leu Gln Glu Pro Leu
            355   360   365

Phe Thr Glu Trp Ala Arg Phe Ser Asp Thr Arg Leu Ser Gln Thr Met
    370   375   380

Leu Gly His Val Gly Leu Asn Lys Ala Ser Trp Lys Gly Leu Gln Arg
385   390   395   400

Gln Gln Pro Ser Ser Glu Asp Ala Ser Ala Ala Phe Glu Leu Asn Ser
            405   410   415

Gln Leu Leu Thr Gln Glu Asn Arg Leu Ser
            420   425

<210> 4
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Mus sp.

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<213> Rattus sp.

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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

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<210> 8
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<400> 8
aattcttgta taaagttgct agata                                          25


<210> 9
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:probe

<400> 9
acatgggtta caaatatcag caca                                           24


<210> 10
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:probe

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<210> 11
<211> 3165
<212> DNA
<213> Mus sp.

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<210> 12
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<400> 12
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<210> 13
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<400> 13
cgcgtctaga ttatgataac cgattttcct gaggtaa   37

<210> 14
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<400> 14
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<210> 15
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<400> 15
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<210> 16
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<400> 16
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<210> 17
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<400> 17

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<210> 18
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<400> 18
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<210> 19
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<220>
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<400> 19
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<210> 20
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<210> 21
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<220>
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<400> 21
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<210> 22
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<220>
<223> Description of Artificial Sequence:primer

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<210> 23
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<220>
<223> Description of Artificial Sequence:primer

<400> 23
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<210> 24
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<400> 24
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<210> 25
<211> 35
<212> DNA
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<220>
<223> Description of Artificial Sequence:primer

<400> 25
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<210> 26
<211> 33
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<220>
<223> Description of Artificial Sequence:primer

<400> 26
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<210> 27
<211> 34
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<220>
<223> Description of Artificial Sequence:primer

<400> 27
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<220>
<223> Description of Artificial Sequence:primer

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<210> 29
<211> 35
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<220>
<223> Description of Artificial Sequence:primer

<400> 29
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<210> 30
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<220>
<223> Description of Artificial Sequence:primer

<400> 30
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<210> 31
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<220>
<223> Description of Artificial Sequence:oligonucleotide

<400> 31
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<210> 32
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<220>
<223> Description of Artificial Sequence:oligonucleotide

<400> 32
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<220>
<223> Description of Artificial Sequence:oligonucleotide

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<210> 34
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<223> Description of Artificial Sequence:oligonucleotide

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<213> Mus sp.

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